

# EUROPEAN PATENT OFFICE

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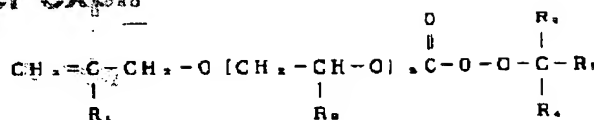
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APPLICANT : NIPPON OIL & FATS CO LTD;

INVENTOR : UJIGAWA NORIHISA;

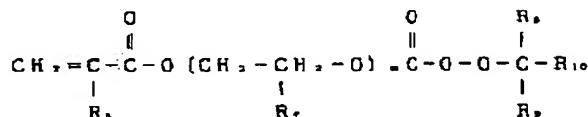
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TITLE : METHOD FOR OPEN CROSS-LINKING  
OF RUBBER

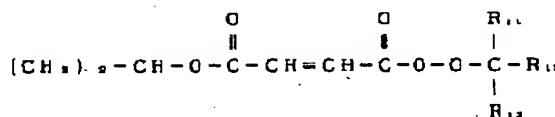


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I



II



III

ABSTRACT : PURPOSE: To carry out the cross-linking of rubber favorable in surface conditions of a cross-linked material at a high cross-linking rate by using an organic peroxide having a specific structure as a cross-linking agent in open cross-linking.

CONSTITUTION: The objective cross-linking of rubber is carried out by using at least one selected from the group consisting of organic peroxides expressed by formula I [R<sub>1</sub> is H or 1-4C alkyl; R<sub>2</sub> is H or methyl; R<sub>3</sub> and R<sub>4</sub> are 1-4C alkyl; R<sub>5</sub> is 1-12C alkyl, (alkyl-substituted)phenyl or 3-12C cycloalkyl; (n) is 0, 1 or 2], formula II [R<sub>6</sub> is H or 1-2C alkyl; R<sub>7</sub> is H or methyl; R<sub>8</sub> and R<sub>9</sub> are 1-4C alkyl; R<sub>10</sub> is 1-12C alkyl, (alkyl-substituted)phenyl or 3-12C cycloalkyl; (m) is 1 or 2] and formula III [R<sub>11</sub> and R<sub>12</sub> are 1-4C alkyl; R<sub>13</sub> is 1-12C alkyl, (alkyl-substituted)phenyl or 3-12C cycloalkyl] as a cross-linking agent.

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